

Antenna specification for approval

Customer name:Dai Xun Communication Model :N16A

Antenna Type:WIFI antenna

Antenna frequency band :2.4G/5.8G

Material requirement :FPC

Part Number:F1026P-1L24B-285-A

Color: Black

F1026P-1L24G-350-A

Production date :2023-10-16

Version: A			
Admit that signature			
Confirmation Signature		Customer Approved	
Responsible		Responsible	
QC		Chief	
Approve		Approve	
Date		Date	

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一：概述

- This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of WLAN antenna.
- Antenna shape size: Meet the requirement of MID
- Antenna band: 2400MHz~2500MHz,4850MHz-5850MHz
- Antenna material: Antenna material meet the requirement of MID
- Adhesive performance: Adhesive performance meet the requirement of MID
- Antenna performance meet the spec below:

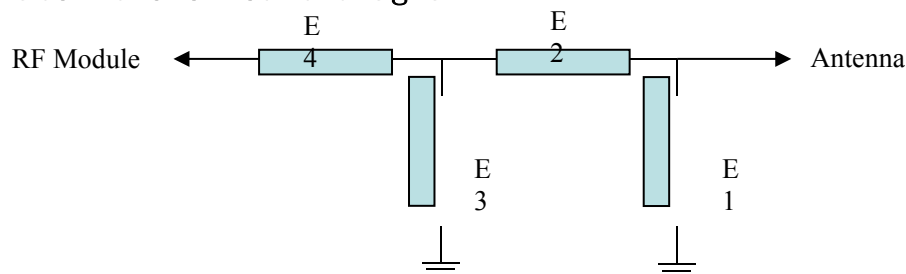
Description	2.4GHz~2.5GHz, 4.85G—5.85G	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Antenna Efficiency	≥ 40	%
MAX Gain:2.4G :0dBi,5G:0dBi		
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

● Mechanical Information

Mechanical Dimension	
Cable Length	285/350mm/Black/Gray
Description	WLAN antenna
Material	FPC
Coaxial Cable	50Ohm/O.D.0.81mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

二： Match circuit diagram, machine picture, antenna picture

2.1 Match the circuit diagram



We have not modified the antenna matching

2.1 Machine picture, antenna picture



三: Standing wave ratio (VSWR),
 efficiency

3.1 Standing wave ratio (VSWR)



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3.2. efficiency

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	33.9	-5.47	-1.23	-4.38	7.052	10.848	-1.23	-23.65	48.87	48.97
2410	33.7	-5.84	-1.76	-3.91	7.128	13.569	-1.76	-16.29	49.14	49.3
2420	32.4	-5.59	-1.12	-3.27	5.586	11.816	-1.12	-20.33	48.46	48.98
2430	34.71	-5.84	-0.8	-2.95	7.586	13.124	-0.8	-18.86	49.22	49.55
2440	34.8	-5.06	-0.4	-2.55	8.949	15.853	-0.4	-19.28	49.6	49.76
2450	36.11	-5.76	-1.07	-3.22	6.882	14.226	-1.07	-17.96	48.98	49.07
2460	33.1	-5.36	-0.23	-2.38	7.716	15.389	-0.23	-25.76	48.97	49.24
2470	34.24	-4.16	0.00	-2.14	8.063	16.173	0.00	-20.22	48.97	49.15
2480	35.73	-4.9	-0.34	-2.49	8.788	16.944	-0.34	-20.55	49.25	49.25
2490	36.83	-4.71	-0.21	-2.36	9.1	17.728	-0.21	-22.57	49.46	49.35
2500	38.83	-4.4	0.00	-1.93	10.105	18.724	0.00	-21.01	49.4	49.3

Passive Test For 5.8G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	20.29	-6.93	-1.44	-3.59	14.366	5.92	-1.44	-18.19	59.31	58.15
5200	27.29	-5.64	0.00	-1.88	18.576	8.714	0.00	-18.25	59.54	58.32
5250	21.51	-6.67	-1.79	-3.94	14.521	6.994	-1.79	-22.08	58.75	57.3
5300	22.07	-6.56	-1.54	-3.69	14.614	7.453	-1.54	-23.79	58.29	56.79
5350	28.2	-5.5	-0.86	-3.01	18.375	9.829	-0.86	-24.48	59.98	58.48
5400	39.73	-4.01	0.00	-1.53	25.43	14.298	0.00	-22.99	59.93	58.53
5450	33.5	-4.75	0.00	-2.14	21.561	11.939	0.00	-25.28	59.5	58.14
5500	28.89	-5.39	-1.05	-3.2	18.24	10.652	-1.05	-18.43	60.21	58.94
5550	31.1	-5.07	-0.77	-2.92	19.557	11.546	-0.77	-18.84	61.46	59.44
5600	31.45	-5.02	-0.7	-2.85	19.595	11.851	-0.7	-17.75	61.91	59.98
5650	27.62	-5.59	-1.09	-3.24	17.614	10.004	-1.09	-21.24	61.98	60.21
5700	23.42	-6.3	-2.32	-4.47	14.635	8.785	-2.32	-22.34	62.03	60.67
5750	27.25	-5.65	-1.75	-3.9	17.028	10.227	-1.75	-26.91	61.76	60.48
5800	29.49	-5.3	-1.45	-3.6	18.674	10.815	-1.45	-16.71	61.58	60.04
5850	28.98	-5.38	0.00	-2.08	18.415	10.562	0.00	-16.66	62.21	60.78

Application Information				Application Information				
04Version		5.230.336		04Version		5.230.336		
TotalTime		13m 54s 451ms		TotalTime		20m 31s 486ms		
AdditionalInfor		802.11b : 11MBps		AdditionalInfor		802.11a : 54MBps		
Test	Wifi 2G TRP			Test	Wifi 5G TRP			
Result	1	7	13	Result	36	64	149	165
Frequency (MHz)	2412	2442	2472	Frequency (MHz)	5180	5320	5745	5825
TRP (dBm)	9.22	8.61	8.15	TRP (dBm)	9.15	9.84	13.12	12.53
NHPRP (dBm)	6.23	5.71	5.3	NHPRP (dBm)	5.3	4.9	11.86	11.29
MAX (dBm)	11.59	11.42	11.67	MAX (dBm)	10.32	11.43	17.46	17.35
EIRP peak	11.59	11.42	11.67	EIRP peak	10.32	11.43	17.46	17.35
Min (dBm)	-2.56	-3.9	-4.29	Min (dBm)	-3.38	-2.56	7.99	4.44
Attenuation Horiz	20.68	20.8	21.12	Attenuation Horiz	30.11	29.33	30.42	30.9
Attenuation Vertic	21.16	21.06	21.2	Attenuation Vertic	29.54	28.25	30.38	31.08
Test	ifi 2G TIS			Test	ifi 5G TIS			
Result	13			Result	149			
Frequency (MHz)	2472			Frequency (MHz)	5745			
TIS (dBm)	-73.84			TIS (dBm)	-65.86			
NHPIS (dBm)	-62.99			NHPIS (dBm)	-62.61			
RSSIAve	5.99			RSSIAve	13.31			
MaxPosRSSI	10.41			MaxPosRSSI	16.43	N16A		
MaxPosSens	-78.26			MaxPosSens	-66.99			
MAX (dBm)	11.51			MAX (dBm)	17.58			
EIS peak	11.51			EIS peak	17.58			
Min (dBm)	-4.44			Min (dBm)	8.08			
Attenuation Horiz	20.96			Attenuation Horiz	30.68			
Attenuation Vertic	21.05			Attenuation Vertic	30.42			

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四：Structural drawing

